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Opinion

Plato's AI Pharmacy

Tolga Theo Yalur*

Faculty of Communication, Izmir University of Economics, Turkey

***Corresponding author:** Tolga Theo Yalur, Department of Communication, Izmir University of Economics, Turkey

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Abstract

In the discourse surrounding artificial intelligence, philosophical inquiries have begun to resurface with renewed vigor. Central to this conversation is the ancient Greek philosopher Plato, who introduced the term "phármakon." This complex word encompasses binary senses: remedy and poison. In examining AI through this lens, this article shows how it embodies both the potential for profound progress of human life and the risk of detrimental impacts if misused.

Keywords: Phármakon; AI; Plato; Technology

Introduction

Generative AI elicits a wide range of responses, often swinging between optimism and apprehension. In lieu of this complex landscape, UNESCO [1] released a practical book focused on the thoughtful integration of ChatGPT in higher education, aiming to strike a balance by highlighting the tool's educational benefits while also addressing the ethical dilemmas that may arise. Additionally, various research has demonstrated that digital tools, more than supplanting human cognitive skills, actually transform and enhance them. This mirrors the evolution of writing expressed by Plato, which has grown to be a fundamental aspect of human intellectual growth, enriching human capabilities instead of merely replacing memory.

In the realm of philosophy, the concept of "phármakon" (φάρμακον), introduced by Plato, embodies a dual nature, encompassing both remedy and poison. This dual aspect is particularly salient in discussions about technology and artificial intelligence (AI). With the progress in these fields, it is crucial to reflect on how they serve as a phármakon within society, causing both progress and peril.

Plato presented the concept of phármakon in several dialogues, most notably in the context of writing in *Phaedrus* [2]. He suggested that writing as a medium of communication can both aid memory and understanding but may also lead to forgetting and superficial wisdom. This ambivalence is echoed in the modern phenomenon of technology and AI. On one hand, these progresses lead to connectivity, efficiency, and problem-solving capabilities, redefining the boundaries of human experience. On the other hand, they challenge human ethical frameworks, question human autonomy, and may weaken essential human skills.

Plato employed the concept of phármakon in his dialogues to illustrate the ambivalence of certain things, specifically in terms of knowledge and communication. The allegorical essence of phármakon points out the dual nature of technology. AI, a modern phármakon, stands at the crossroads of liberation and slavery, depending on how it is wielded. On one hand, it offers unprecedented capabilities in handling data, optimizing processes, and enhancing creativity. It serves as a remedy that can aid in the pursuit of knowledge, efficiency, and problem-solving across numerous disciplines-healthcare, education, and environmental management, to name a few.

Yet, this "remedy" can quickly transform into a "poison" when the ethics around AI's development and use are neglected. Misguided implementations of AI may lead to privacy violations, biases in decision-making algorithms, and a disconnect from the very essence of human experience. Here, the pharmaceutical character of AI reveals itself: it can heal societal woes or exacerbate existing inequalities, highlighting the social and philosophical implications of this technology.

Consider the productivity enforced by AI systems in various sectors. From healthcare to education, AI tools have revolutionized processes, enabling professionals to deliver faster and more accurate results. For example, in medicine, AI algorithms analyze vast datasets to identify patterns undetectable by human analysis, potentially leading to breakthroughs in diagnostics and treatment plans. In education, personalized learning technologies adapt to individual student needs, making education more accessible and equitable.

There is a cautionary aspect to this narrative. The proliferation of AI comes with profound ethical implications, such as the risk of surveillance, data privacy infringements, and job losses. The automated systems that enhance productivity also create a dependency that can degrade human agency and critical thinking. Just as Plato warned against the potential numbing of intellect through the over-reliance on written texts, contemporary philosophers urge vigilance regarding a similar phenomenon with technology: a gradual erosion of human cognitive and ethical faculties.

Jacques Derrida, in his influential essay on "Plato's Pharmacy " [3], complicated the straightforward interpretation of phármakon, underlining the undecidable and binary character of a single word in Greek, also questioning the oppositions that often govern human comprehension-such as presence/absence or truth/untruth. The dual sense of phármakon indicates how technology influences perceptions of reality. It invites f or considering not just what technologies do, but how they structure the very human being and knowledge. Each instance of technology-whether writing, digital media, or other forms-carries the potential for both enlightenment and obfuscation.

This dynamic interplay reflects a broader concern regarding the philosophical implications of technology and AI [4]. In the evolving digital landscape, where information is readily accessible, the tension between technology as a tool for liberation and as a mechanism for control becomes more pronounced. Derrida's interpretation of phármakon includes the inherent instability of sense. He posits that words and concepts are ultimately contingent and never fully fixed. This idea parallels the fluid nature of technological progress; much like language, technologies are continually evolving and re-structuring human interactions with reality. For instance, while social media platforms promote connectivity and community, they also raise critical questions about privacy, identity, and the commodification of personal information.

Derrida would likely argue that we must remain vigilant about the impacts of AI and technology. The prevalence of misinformation, echo chambers, and algorithmically driven content highlights the educational perils inherent in these technologies. Individuals may easily mistake the readily available information as comprehensive understanding, echoing Plato's concerns regarding writing's ability to mislead. This scenario exemplifies the dual nature of phármakon; technology can serve as a tool for enlightenment while simultaneously posing threats to truth and authenticity.

Delving deeper, in Plato's cave allegory, prisoners mistake shadows for reality, reflecting ignorance and the superficial understanding of truth. In the domain of AI, the "shadows" can be seen as the vast data sets consumed without critical comprehension. The proliferation of deepfakes and misinformation represents a perilous distortion of reality that can mislead not just individuals but entire societies. AI's capacity to create convincing but fabricated realities poses a significant threat, compelling an exploration of the human relationship with truth in an age dominated by information technology.

In the exploration of the phármakon of technology, there are social implications. The unequal access to technology further raises questions about equity and justice in society. If technology is indeed a remedy, then i t must be distributed in a manner that serves the common good rather than exacerbating existing inequalities.

Moreover, the ethical considerations of AI systems themselves reveal another layer of complexity. The decision-making processes within these systems can reflect human biases, leading to discrimination and injustice. This highlights the need for robust frameworks that oversee the development and deployment of AI, ensuring accountability and transparency. Just as Socratic philosophy encourages questioning and communication, we must scrutinize the se human-made systems and the impacts they have on collective humanity.

The implications of the pharmakon also extend to the question of authenticity and agency. As AI systems become more autonomous, there lies the risk of individuals abdicating personal responsibility. Plato believed in an ideal where philosophers, those who grasp the essence of truth, should lead society. In the age of AI, the question if humans are allowing algorithms to lead their decisions—essentially, whether humans are letting shadows dictate the reality raises critical concerns about human agency and the need for a robust framework to govern the interactions with AI technologies. Essentially, humans should balance wisdom with technological progress.

Plato's phármakon in the context of technology and AI serves as a profound reminder of the dual nature of human-made entities. Rather than viewing them as unambiguously beneficial or harmful, scholars must engage deeply with the ethical implications, advocating for responsible approaches that harness the benefits while mitigating the perils. The challenge lies not in the A I itself, but in how society chooses to wield it. Grappling with these dualities both prizes the legacy of philosophical inquiry and leads to a just and equitable path.

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Conflict of interest

No conflict of interest.

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